

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/979518

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
30 November 2000 (30.11.2000)

PCT

(10) International Publication Number  
WO 00/71739 A1(51) International Patent Classification<sup>7</sup>: C12P 19/34

(21) International Application Number: PCT/US00/13960

(22) International Filing Date: 19 May 2000 (19.05.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/135,437 22 May 1999 (22.05.1999) US(71) Applicant (for all designated States except US): EPICENTRE TECHNOLOGIES CORPORATION [US/US];  
1202 Ann Street, Madison, WI 53713 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SCHANKE, Judith, E., T. [US/US]; 2728 Tami Trail, Fitchburg, WI 53711 (US).

(74) Agent: BAKER, Jean, C.; Quarles &amp; Brady LLP, 411 East Wisconsin Avenue, Milwaukee, WI 53202-4497 (US).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: REVERSE TRANSCRIPTION ACTIVITY FROM *BACILLUS STEAROTHERMOPHILUS* DNA POLYMERASE IN THE PRESENCE OF MAGNESIUM(57) Abstract: The present invention is directed to a thermostable DNA polymerase from *Bacillus stearothermophilus* for use in reverse transcription and/or reverse transcriptase-polymerase chain reaction (RT-PCR), where said DNA polymerase shows magnesium ion dependent reverse transcriptase activity and in the substantial absence of manganese ions.

WO 00/71739 A1